

1                   **ABSTRACT OF THE DISCLOSURE**

2                   A mass transfer device having a fluid permeable core wound  
3                   with many stands of a hollow fiber. A bulk fluid enters the  
4                   interior of the core, passes through the side wall of the core,  
5                   and along the outer surfaces of the hollow fibers. A baffle  
6                   positioned in the center of the core so that the bulk fluid  
7                   passes outwardly upstream of the baffle and inwardly through the  
8                   core along the downstream of the block.